

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (*Original*) An optoelectronic device comprising:  
  
a dielectric layer or a semiconductor layer sandwiched between electrode structures,  
  
wherein at least one of the electrodes is substantially metal comprising and at least semi-transparent,  
  
a periodic microstructure in contact with at least one surface of the substantially metal comprising and at least semi-transparent electrode,  
  
characterised in that the structure and positioning of the periodic microstructure is such that:  
  
surface plasmon (SP) polariton modes supported mainly at the interface between the dielectric layer or semiconductor layer and the metal comprising, semi-transparent electrode  
  
are substantially scattered into propagating light, said propagation being out of the plane of the dielectric layer or semiconductor layer and the metal comprising, semi-transparent electrode interface.
2. (*Original*) A device according to claim 1 wherein the periodic microstructure is selected from the following structures  
  
the metal comprising electrode comprises a grating type structure on each of its surfaces, wherein the relationship between the microstructure of the two metal comprising surfaces is such that they are out of phase by  $\pi$  radians or substantially  $\pi$  radians;

a grating type structure present only at the interface between the metal comprising electrode and the semiconductor or dielectric layer;

a grating type structure present at the metal comprising electrode/air interface only;

a further dielectric layer present at the surface of the metal comprising electrode remote from the dielectric/semiconductor layer, on which is present a grating type structure.

3. (*Original*) A device according to claim 2 wherein the periodic microstructure is selected from a grating type structure present at the metal comprising electrode/air interface only wherein there is present an encapsulating layer on the electrode.

4. (*Currently Amended*) A device according to ~~any of claims 1-3~~claim 1 wherein the periodic microstructures are a periodic sequence of valleys and hills, or a periodic sequence of grooves.

5. (*Currently Amended*) A device according to ~~any of claims 1-3~~claim 1 wherein the periodic microstructures are a grating type structure which is a series of holes in the metal comprising electrode.

6. (*Currently Amended*) A device according to ~~any of claims 1-5~~claim 1 wherein the periodic microstructures are periodic in more than one direction on the surface.

7. (*Currently Amended*) A device according to ~~any of claims 1-6~~claim 1 wherein the periodic microstructures are sub-wavelength.

8. (*Currently Amended*) A device according to ~~any of claims 1-7~~claim 1 wherein the metal comprising electrode is an aluminium cathode.

9. (*Currently Amended*) A device according to ~~any of claims 1-8~~claim 1 wherein the device is chosen from a light emitting diode, a photovoltaic cell or a photodiode.

10. (*Original*) A device according to claim 9 wherein the light emitting diode is an organic light emitting diode.